

ZACHAR, J.
ZACHAROVÁ, D. ZACHAR, J.

Effect of potassium ions on electrical activity of irritation and inhibition fibers. Česk. fysiol. 6 no. 4:472-478 Nov 57.

1. Fysiologicky ustav CSAB, Praha, Laboratorium neurofiziologie SAV,
Bratislava.

(NERVES, physiology,

electrical activity of inhib. & irritation fibers, eff. of
potassium (Cs))

(POTASSIUM, effects,

on electrical activity of inhib. & irritation nerve fibers
(Cs))

ZACHAR, J.; ZACHAROVÁ, D.

Mechanical energy as causative agent of spreading depression. Česk. fysiol.
7 no.3:189-190 May 58.

1. Oddelenie neurofysiologie Ustavu experimentalnej mediciny SAV v
Bratislave.

(CEREBRAL CORTEX, physiol.
spreading depression, mechanical causes (Cz))

ZACHAROVÁ, D.; ZACHAR, J.

Mechanism of appearance of spreading depression. Česk. fysiolog. 7 no.3: 190-191 May 58.

1. Oddelenie neurofysiologie Ustavu experimentalnej mediciny SAV v Bratislave.

(CEREBRAL CORTEX, physiol.
spreading depression, mechanism (Cs))

ZACHAR, J.; RUSCAK, M.

Cerebral metabolism in spreading depression. Česk. fysiol. 7 no.3:191-192 May 58.

1. Oddelenie neurofysiologie Ustavu experimentalnej mediciny SAV v Bratislave.

(CEREBRAL CORTEX, physiol.

spreading depression, brain metab. (Cx))

(BRAIN, metab.

in cortical spreading depression (Cx))

DUDA, P.; RUSCAK, M.; ZACHAR, J.

Cerebral metabolism in depolarization induced by asphyxia following spreading depression. Cesk. fysiol. 7 no.5:446-447 Sept 58.

I. Ustav experimentalnej mediciny SAV, Bratislava.
(BRAIN, metabolism,

eff. of depolarization induced by asphyxia after spreading
decortical depression (Cz))

(ASPHYXIA, exper.

eff. of depolarization induced by asphyxia after spreading
cortical depression on cerebral metab. (Cz))

(CEREBRAL CORTEX, physiol.

spreading depression with consecutive asphyxia & depolariza-
tion, eff. on cerebral metab. (Cz))

DUDA, P.; ZACHAR, J.; RUSCAK, M.

Course of terminal anoxic depolarization following spreading EEG depression.
Cesk. fysiol. 7 no.5:448-449 Sept 58.

1. Ustav experimentalnej mediciny SAV, Bratislava.
(CEREBRAL CORTEX, physiol.

spreading depression with terminal anoxic depolarization (Cz))
(ANOXIA, exper.

terminal anoxic depolarization after spreading cortical EEG
depression (Cz))

ZACHAR, Jozef; ZACHAROVÁ, Daria

Mechanism of the origin of spreading cortical depression. Lek.
prac. (Biol. lek.) 3 no.2:3-110 '63

1. Ustav experimentalnej mediciny SAV.

*

ZACHAR,J.; HENČEK, M.

Intracellular water and density of single muscle fibres in the crayfish. Physiol. Bohemoslov. 14 no.1:1-11 '65

1. Institute of Experimental Medicine of the Slovak Academy of Sciences, Czechoslovak Academy of Sciences, Bratislava.

CZECHOSLOVAKIA

HENCEK, M.; ZACHAR, J.: Department of Normal and Pathological Physiology, Slovak Academy of Sciences (Ustav normalnej a patologickej fyziologie SAV), Bratislava.

"Electrical Activity of the Isolated Muscle Fiber of Sweet Water Crab."

Prague, Ceskoslovenska Fysiologie, Vol 14, No 5, Oct 1965, p 348.

Abstract: Study of resistance capacitance and speed of transmission in 24 fibers with oscillographic recordings. These parameters were found closely related to the radius of the fiber. Graph, 2 Western references. Paper presented at the 15th Physiology Days, Olomouc, 28 May 65.

1/1

Biophysics

CZECHOSLOVAKIA

ZACHAR, Jozef; Affiliation not given 7.

"Symposium on Biophysics of Membranes"

Prague, Vestnik Ceskoslovensko Akademie Ved, Vol 75, No 5, 1966,
pp 755 - 756

Abstract: The symposium was held at Smolenice on 29 Aug to 3 Sep 66. The conference was organized by the Institute of Normal and Pathological Physiology of the Slovak Academy of Sciences at Bratislava; there were 42 delegates from 16 countries, some of them Western. Passive permeability of natural and synthetic membranes for ions, bonds of Na and K atoms in erythrocytes and in excitable membranes, ion transport through epithelia tissues, mechanisms of permeability and metabolism; influence of aldosterone and other drugs on permeability, active transport of non-electrolytes and interaction with sodium; genetic aspects of permeability mechanisms are discussed. Some of the papers presented will be published, others will not. No references.

1/1

HENCEK, M.; ZACHAR, J.

The electrical constants of single muscle fibres of the crayfish
(*Astacus fluviatilis*). *Physiol. Bohemoslov.* 14 no.4:297-311 '65.

1. Institute of Normal and Pathological Physiology, Slovak Academy of Sciences, Bratislava. Submitted October 29, 1964.

ZACHAR, J.; SAJTER, V.

The sodium and potassium content of single muscle fibres of
the crayfish, Physiol. Bohemoslov. 14 no. 2:113-125 '65.

1. Institute of Experimental Medicine, Slovak Academy of
Sciences, Bratislava, and Institute of Biochemistry, Faculty
of Medicine, Comenius University, Bratislava.

ZACHAR, J.; ZACHAROVA, D.; HENCEK, M.

Membrane potential of the isolated muscle fibres of the crayfish.
(*Astacus fluviatilis*). *Physiol. Bohemoslov.* 13 no. 2:117-138 '64

The relative potassium and chloride conductances in the muscle
membrane of the crayfish. *Ibid.* 129-136

1. Institute of Experimental Medicine, Slovak Academy of
Sciences, Bratislava.

ZACHAR, J.; HENCEK, M.; ZACHAROVA, D.

Membrane conductivity of muscle cells in an osmotically
changed medium. Bratisl. lek. listy 43 Pt. 2 no.7:398-411
'63.

1. GSAV - Ustav experimentalnej mediciny SAV v Bratislavе,
riaditeľ olen koresp. SAV J. Antal, Dr. Sc.
(ELECTROMYOGRAPHY) (IONS) (SUCROSE)
(CHOLINE) (SODIUM CHLORIDE) (CALCIUM)
(MUSCLES)

ZACHAR, J.; ZACHAROVA, D.

Release thresholds of spreading depression in the lysacephalic brain
of some phylogenetic species, Bratisl. lek. listy 42 no.10:602-610
'62.

1. Z oddelenia neurofysiologie Ustavu experimentalnej mediciny Slovensky
akademie vied v Bratislave, veduci clen koresp. Slovensky akademie vied
J. Antal, Dr.Sc.

(CEREBRAL CORTEX physiol)

BURESH, Ya.[Bures, Jan]; PETRAN', M.[Petran, Mojmir]; ZAKHAR, I.
Zachar, Jozef]; KEDER-STEPANOVA, I.A.[translator]; SMIRNOV, G.D.,
red.; RAYSKAYA, N.A., red.; YANOVSKAYA, Ye.A., red.; REZOUKHOVA,
A.G., tekhn. red.

[Electrophysiological methods of research]Elektrofiziologicheskie
metody issledovaniia. Pod red. i s predisl. G.D.Smirnova. Mo-
akva, Izd-vo inostr. lit-ry, 1962. 454 p. Translated from the
Czech.

(Electrophysiology)

DUDA, P.; RUSCAK, M.; ZACHAR, J.

Spreading cortical depression and the polarization gradient of
the cerebral cortex. Physiol Bohemoslov 10 no.5:438-447 '61.

1. Institute of Experimental Medicine, Slovak Academy of Sciences,
Bratislava.
(CEREBRAL CORTEX physiol) (ANOXIA exper)

ZACHAR, J., HENCEK, M.

A method of multilead d.c. registration on the one-beam oscilloscope
by the chopping technique. Physiol Bohemoslov 10 no. 5: 474-479 '61.

1. Institute of Experimental Medicine, Slovak Academy of Sciences,
Bratislava.

(OSCILLOMETRY)

ZACHAR, J.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2"

ZACHAR, J.; HENCEK, M.

On the problem of the dissociation of the muscle active potential
in contractions. Cesk.fysiol. 9 no.3:277-278 Ky '60.

1. Ustav experimentalnej mediciny SAV, Bratislava.
(MUSCLES physiol)

ZACHAROVÁ, D.; ZACHAR, J.

On the problem of the spreading action potential in the muscle fiber in crayfish. Česk.fysiol. 9 no.3:278 Ky '60.

1. Ustav experimentalnej medicíne SAV, Bratislava.
(MUSCLES physiol.)

ZACHAR, Josef

21st International Physiological Congress in Buenos Aires, August
9-15, 1959. Biología 15 no.2:74-78 '60. (EEAI 9:5)
(INTERNATIONAL PHYSIOLOGICAL CONGRESS 21ST, BUENOS AIRES, 1959)
(PHYSIOLOGY)

CZECHOSLOVAKIA/Murkin and Animal Physiology - Nerve and Muscle
Physiology.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 13135

Author : Zacharov, D., Zachar, J.

Inst :

Title : Influence of Potassium Ions on Electrical Activity of
Excitor and Inhibitor Fibers.

Orig Pub : Physiol. bohemosl., 1957, 6, No 4, 462-470

Abstract : No abstract.

Card 1/1

CZECHOSLOVAKIA/Human and Animal Physiology - Nerve and Muscle
Physiology.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 13134

At the site of the action of the solutions with an increased concentration of K there was noted a lowering of the amplitude and an ascending phase of the potential of the effect for both inhibitor and excitor axons. Very similar changes were observed in the rate of conductivity after intoxication with 2,4-dinitrophenol.

Card 2/2

- 89 -

ZACHAR, J.

SCIENCE

Periodicals: CESKOSLOVENSKA FYSIOLOGIE Vol. 4, no. 4, 1955

ZACHAR, J. Notes on the problem of changes in electrical signals of impulses in electronus. p. 445

Monthly List of East European Accessions (EEAI) IIC, Vol. 8, No. 5,
May 1959, Undine.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2

ZACHAR, Laszlo

"Aluminum building structures" by Buray, Bolcskei, Csellai, Domony.
Reviewed by Laszlo Zachar. Koh lap 96 no. 3:142 Mr '63.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2"

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2

LOMNICZY, Dezso; ZACHAR, Lasslo

Development of the Szekesfehervar Light Metal Works. Kohlap 93 no.71
298-301 Jl '60.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2"

ZACHAR, L., Kocsis, J.

Determination of the speed of deformation at extrusion and drawing. p. 71
(KOMASZATI LAPOK. Vol. 12, no. 1/2, Jan/Feb. 1957. Budapest, Hungary)

SO: Monthly List of East European Accessions (EVAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

ZACHAR, L.

Survey of the processing technology of aluminum chips and the equipment needed
for it. p.467

KOHASZATI LAPOK. (Magyar Bányászati és Kohászati Egyesület)
Budapest, Hungary
Vol. 13, no.10/11, Oct./Nov. 1958

Monthly List of East European Accessions (EEAI) IC., Vol. 8, no.7, July 1959
Uncl.

CATAR, G.; KVASZ, L.; ZACHAR, M.

Positive complement fixation reaction for toxoplasmosis in patients in an obstetrical-gynecological department. Bratisl. lek. listy 44 no.8:478-484 '64.

1. Vyskumne laboratorium parazitologie pri Katedre lekarskej biologie Lek. fak. Univerzity Komenskeho v Bratislave (veduci prof. MUDr. V. Vrsansky).

CZECHOSLOVAKIA

CATAR, G., Doc. MUDr, CSc.; ZACHAR, M.; VALENT, M.; VRABIC, J.; HINIEZ-HOLEKOVA, E.;
PAVLINA, M.

Parasitological Research Laboratory, Dept. of Biology, Faculty of
Medicine, Comenius Univ. (Vyskumne laboratorium parazitologie pri
Katedre biologie Lek. fak. University Komenskeho), Bratislava (for all)

Bratislava, Bratislavské lekarské listy, No 4, 28 Feb 67, pp 226-34

"Infestation of small mammals with tissue protozoa."

(6)

HUDCOVIC, A., doc.; ZACHAR, V.

Biology of the artificial vagina. Cesk. gynec. 26 no.9:676-679 II '61.

I. Z II gyn. por. klin. UK v Bratislave, prednosta doc. MUDr. Aurel
Hudcovic, a z gyn. odd. MUNZ v Bratislave, prednosta MUDr. Vojtech
Klement.

(VAGINA surg)

ZACHAR, Vilmos

Economy in the use of materials is an important means for reducing
prime costs. Ujít lap 12 no. 7:25 10 Ap '60.

1. Koho- és Gépipari Minisztérium Iparpolitikai Főosztályán.

ZACHAR, Vilmos

Gyroscopic voltage indicator. Ujít lap 12 no. 2:27 25 Ja '60.

1. Koho- és Gépipari Miniszterium Iparpolitikai Fóosztalyt.

ZACHAR, Vilmos

Tilting and moving device, a substitute for hard physical work. Unit
lap 12 no.2:23 25 Ja '60.

1. Koho- és Gépipari Minisztérium Iparpolitikai Főosztályra.

ZACHAR, Vilmos

Protection of accumulator generators against polarization. Ujít lap
12 no. 2:27 25 Ja '60.

1. Koho- és Gépipari Miniszterium Iparpolitikai Fóosztalya

ZACHAR, ✓

SURNAME, Given Names

Country: C_zechoslovakia

Academic Degrees: /not given/

Department of Obstetrics and Gynecology (Gynakologicko-

Affiliation: porodnicke oddeleni) City Institute of Public Health
(MUNZ: Mestni ustav narodneho zdravia) Bratislava

Source: Bratislava, Lekarsky Obraz, Vol X, No 9, 1931; pp 663-699.

Data: "Experiences with Newer Methods of Diagnosis of Pregnancy"

✓ KLIMENT, V. ; Head (prednosta) of Department above; MD

✓ ZACHAR, V.

✓ VALENT, M.

✓ DEDINSKY, J.

HUBACEK, K., inz.; ZACHAR, Z., inz.

Television transmitter and a restaurant on Jested Mountain.
Poz stavby 13 no.1:38-40 '65.

1. Regional Project Institute, Usti nad Labem, Branch Liberec.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2

ZACHARA, A.

Aircraft gas generating sets in power engineering. Cispl
masz przeplyw no. 45: 58-61 '63.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2"

ZACHARA, Andrzej, mgr inz.

Analysis of profile losses in blade rows of axial blowers.
Ciepl masz przeplyw no.49:27-58 '64.

BIBIAWSKI, Janusz; ZACHARA, Agata

Research on the treatment of infected wounds with local application of antibiotics. Polski tygod. lek. 13 no. 49:1967-1971 8 Dec. 58.

1. (Z III Kliniki Chirurgicznej A. M. we Wrocławiu; kierownik: doc. dr med. Zdzisław Jeziorko i z Wojewódzkiej Stacji Sanitarno-Epidemiologicznej we Wrocławiu; dyrektor: lek. med. S. Przyłęcki). Adres: Wrocław, ul. Curie-Skłodowskiej 75.

(WOUNDS AND INJURIES, compl.

infect., ther., local chloramphenicol-chlortetracycline-oxytetracycline suspension. (Pol))

(CHLORAMPHENICOL, ther. use

chloramphenicol-chlortetracycline-oxytetracycline suspension in infected wds., local admin. (Pol))

(OKYTETRACYCLINE, ther. use

oxytetracycline-chloramphenicol-chlortetracycline suspension in infected wds., local admin. (Pol))

ZACHARA, Anna

A large emphysematous cyst of the upper left lobe. Gruzlica 29 no. 9:
825-827 S '61.

l. Z Kliniki Ftyzjatrycznej Studium Doskonalenia Lekarzy AM w Szpitalu
im. dr A. Sokolowskiego Kierownik: prof. dr med. M. Zieliński.

(PULMONARY EMPHYSEMA case report)

BEK, Eugenia; WANAT-KONDRATOWICZ, Wladyslawa; STACHLEWSKA, Stanisława;
ZACHARA, Anna

Evaluation of the results of chemotherapy in the outpatient
Clinic for treatment of newly discovered cases of pulmonary
tuberculosis in 1959-1962. Gruzlica 32 no.11:981-988 N '64

The effect of correct classical chemotherapy on the healing of
tuberculous cavities. Ibid. 989-999.

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy
Akademii Medycznej w Szpitalu im. dr. A Sokolowskiego w Łodzi
(Kierownik: prof. dr. med. M. Ziernski).

ZIERSKI, Marian, prof. dr. med.; ZACHARA, Anna

Chemotherapy in patients with pulmonary tuberculosis excreting bacilli resistant to antitubercular drugs. Gruzlica 32 no.11:
1019-1026 N '64

1. Z Katedry i Kliniki Fтиjatrii Studium Doskonalenia Lekarzy Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Lodzi (Kierownik: prof. dr. med. M. Zierski).

ZIERSKI, Marian; BEK, Eugenia; STACHLEWSKA, Stanisława; WANAT-KONERATOWICZ,
Władysława; WOZNIAK, Stefania; ZACHARA, Anna

Evaluation of results of antibacterial therapy of patients with
recently diagnosed pulmonary tuberculosis under clinical condi-
tions. Gruźlica 32 no.8:621-625 Ag '64.

1. Z Katedry i Kliniki Ftizjatrii Studii Dokształcania Lekarzy
Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Łodzi
(Kierownik: prof. dr. med. M. Zierski).

BEK, Eugenia; ZACHARA, Anna

The effect of chemotherapy on the early bacteriological results
in patients discharged from the clinic in 1962-1963. Grunlica
32 no.11:961-965 N '64

1. Z Katedry i Kliniki Ftizjatrii Studium Doskonalenia Lekarzy
Akademii Medycznej w Szpitalu im. dr. A. Sokolowskiego w Lodzi
(Kierownik: prof. dr. med. M. Zierski).

CZAPLICKI, Jeremi; ZACHARCZYK, Antoni

Changes of intraocular pressure in women during the menstrual cycle. *Klin. oczna* 29 no.3:281-286 '59.

1. Z Kliniki Okulistycznej Śląskiej A. M. w Zabrszu Kierownik:
prof. dr med. M. Małroszkiewicz.

(MENSTRUATION physiol)
(INTRAOCULAR PRESSURE physiol)

ZACHARDA, M. (Bratislava)

Manufacture of cast-iron bathtubs. Koh lap 95 no.8:Suppl.: Ontoda
13 no.8:179-182 Ag '62.

1. Muegyetem.

ZACHARDA, Miloslav

The use of semi-permanent moulds. Slovarenstvi 10 no.4:144-145 Ap '62.

1. Slovenska vysoka skola technicka, Bratislava.

L 20660-66

ACC NR: AP5025355

SOURCE CODE: RU/0019/65/050/003/0773/0781

AUTHOR: Zaharescu, A.

ORG: Institute for Applied Mechanics of the Academy of the R.P.R.
BucharestTITLE: Electrical correction circuits for reducing the increase time
of certain mechanical transducersSOURCE: Revue Roumaine des sciences technique. Serie de mecanique
applique, v. 10, no. 3, 1965, 773-781TOPIC TAGS: piezoelectric transducer, interference reduction, control
circuit, time constant, test method, dynamic system, second order equa-
tionABSTRACT: A method for obtaining an important reduction of the inertia
of certain mechanical transducers by inserting into the measuring
channel an electric quadripole with suitable characteristics is de-
scribed. Certain possibilities of synthesis of the correction circuits
for transducers representing dynamical systems of the second order are
discussed. The experimental results proved the efficiency of the
suggested method. Orig. art. has: 7 figures and 27 formulas. [Based
on author's abstract]

SUB CODE: 09, 20/ SUB DATE: 16Dec64/ OTH REF: 002

UDCI: 537.71621.317

Card 1/1 OK

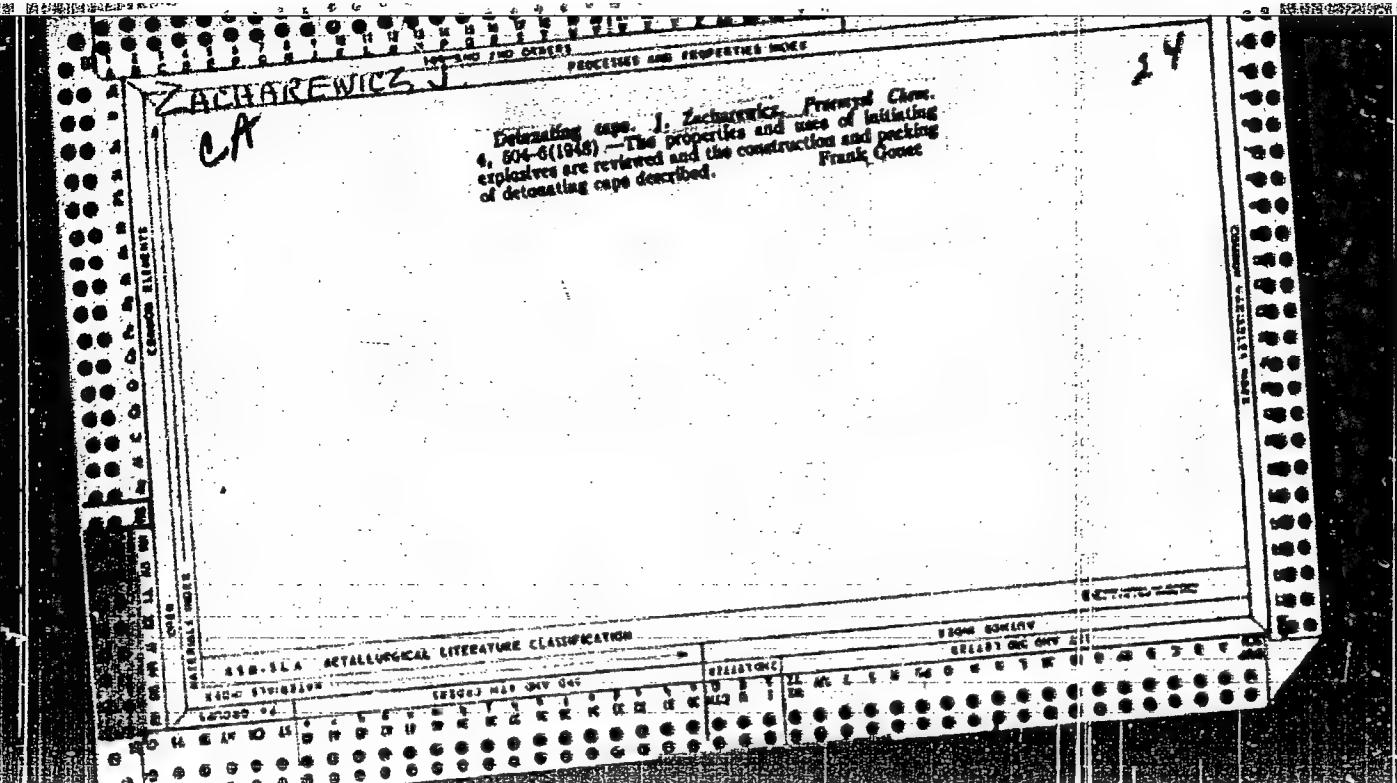
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2

ZACHAREWICZ, A.

ZACHAREWICZ, A. The celebration of the twelfth anniversary of the Manifesto of the Polish Committee of National Liberation in the State Institute of Hydrology and Meteorology. p. 3

Vol. 9, no. 7, 1956
GACETA OBSERWATORA. P.I.H.M.
SCIENCE
Warszawa, Poland

See: East European Accession vol 6, no. 3, March 1957



ZACHAREWICZ, M.

More on the motion picture "Industrial Safety in Metallurgic Plants." p. 31.
(OCHRONA PRACY; BEZPIECZENSTWO I HIGIENA PRACY. Vol. 10, no. 7, July 1956,
Warszawa, Poland.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

ZACHAREWICZ, M.

Method of mass examination for pulmonary tuberculosis. Gruźlica,
Warsz. 20 no. 4:541-550 July-Aug 1952. (GML 23:3)

1. Of the Institute of Hygiene (Head--Prof. B. Nowakowski, M.D.)
of Silesia Medical Academy. Study made at the request of the Institute
of Tuberculosis.

ZACHAREWICZ, M.

Festival of peace and friendship. p. 2. GAZETA OBSERWATORA.
Warszawa. Vol. 8, no. 7, July 1955.

SOURCE: East European Accessions List (EEAL), LC, Vol. 5, no. 3, March 1956.

EXCERPTA MEDICA Sec. 17 Vol. 3/6 Public Health
1869, ZACHAREWICZ M. Zakt. Hig. Pracy Inst. Med. Przemysle Węglowy
i Górnictwem, Zabrze-Rokitnica. "Przyczynki do metodyki badań mikro-
klimatu z udziałem promieniowania cieplnego. On the methodology of
microclimate investigations with the method of thermal radiation
of microclimate in steel works in one of the metallurgical foundries 2
Technical and methodological difficulties caused by the presence of strong sources
of thermal radiation in the working rooms under these conditions is presented.
Investigations with the participation of the MET. PRACY 1956, 7/3 (157-174) Tables 7 Illus. 2

ZACHAREWICZ, Marek

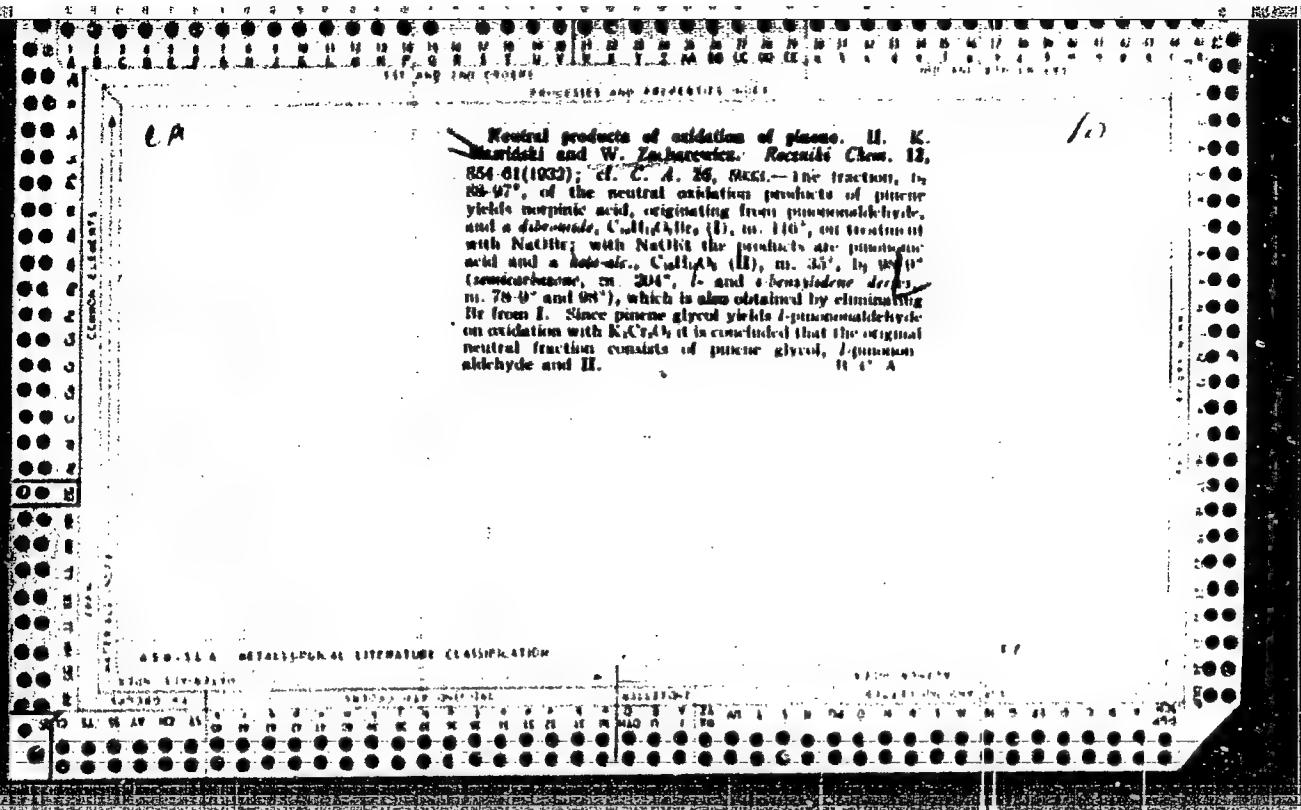
The problem of sampling in tuberculosis control. Gruzlica
30 no.8:725-736 '6'.

1. Z Katedry Higieny Ogólnej Sz. AM Kierownik: prof. dr
B. Nowakowski.
(TUBERCULOSIS) (HEALTH SURVEYS)
(COMMUNICABLE DISEASE CONTROL)

ZACHAREWICZ, Marek

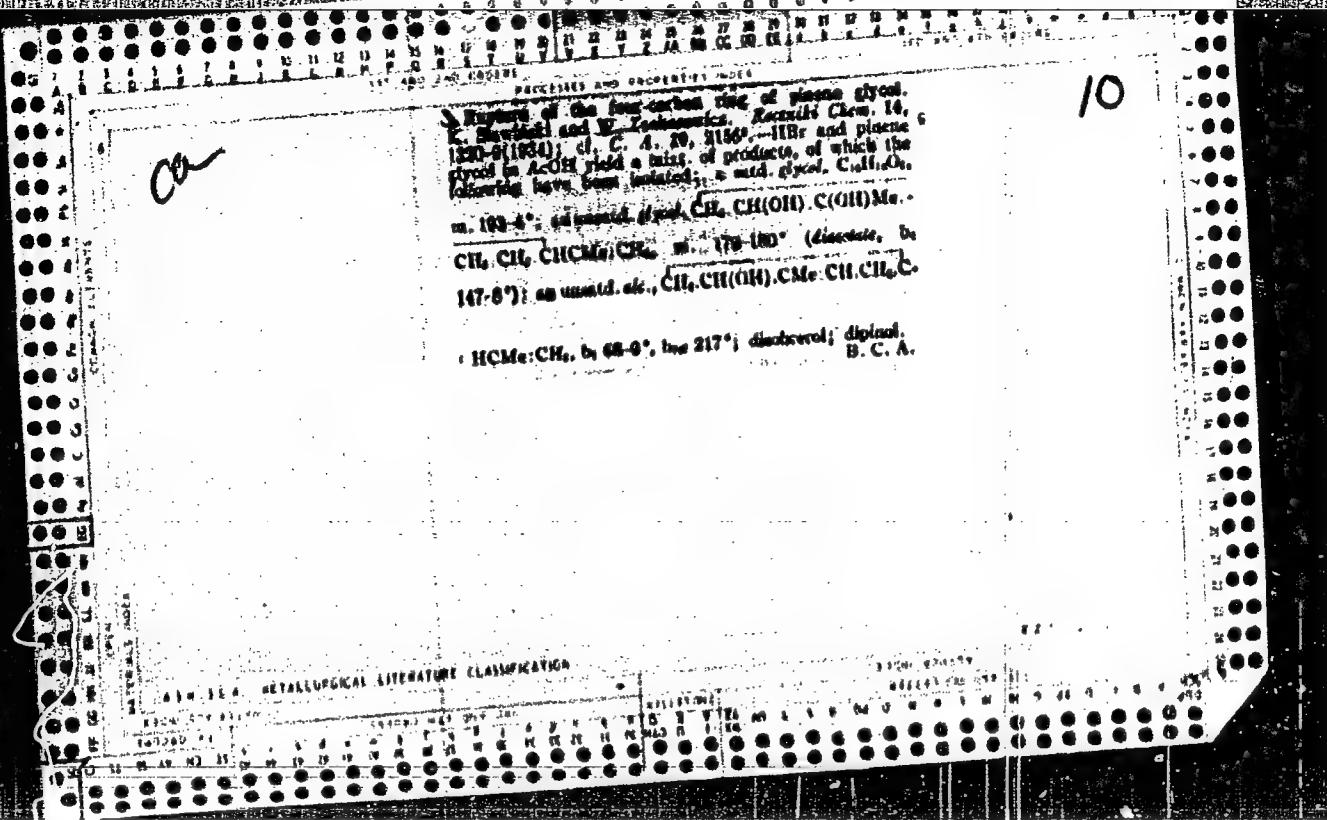
Role of some demographic factors in the epidemiology of
tuberculosis. Gruzlica 31 no.4:337-342 '63.

1. Z Katedry Higieny Ogolnej Slaskiej AM Kierownik: prof.
dr B. Nowakowski.
(TUBERCULOSIS) (EPIDEMIOLOGY) (DEMOGRAPHY)

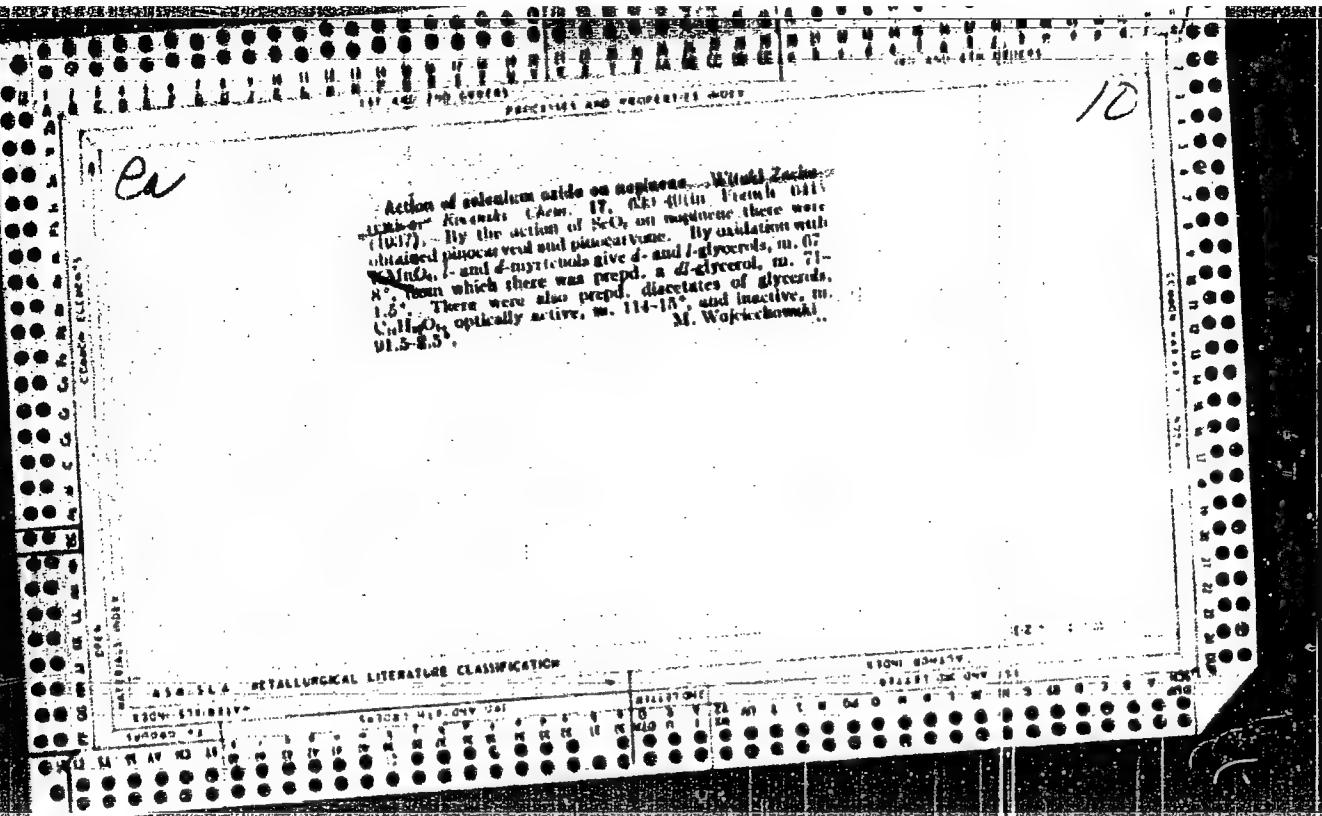


Acid products of oxidation of pinene. K. Skowroński and W. J. Zachariasz. Roczniki Chem. 16, 212-18 (1942); cf. T. A. M., 1979. Sixty-seven % of the acids produced by KMnO₄ oxidation of L-β-hydroxy-α-ketone of pinoleic acid, and the remainder of α-hydroxy acid. T. A.

APPROVED FOR RELEASE: 03/15/2001 CIA-RDP86-00513R001963330004-2"



The action of selenium oxide on camphene and pinene.
Witold Zdziarski. Rocznik Chem. 16, 299-300 (in
French 299-300) (1935).—SeO₂ oxidizes the Me group of
pinene. Myrcenyl selenide is also formed. In the case
of camphene, SeO₂ does not oxidize the tertiary group in
the α -position, but the reaction gives camphene selenide.
M. Walejchowski



CA

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The action of phosphorus pentachloride on selenium derivatives of terpenes. Whield, Zacharyevics, Kozmin. Chem. 22, 82-7 (1948).—Phenyl selenide (I) (17.5 g.) in 50 g. petr. ether and 21 g. PCl₅ in 30 g. petr. ether gave (at 35°) 14.1 g. myrtenyl chloride (II), m.p. 97-8°, [α]_D 187.0, ν_{KBr} 1.61227, d₄²⁰ 1.0223, and 3.8 g. Se. II (9.5 g.) and 19 g. AcOAc in 70 g. AcOH gave on heating 4 hrs. at 60-70° a mixt. of myrtenyl acetate and chloride, but it was hydrolyzed with 9% aq. KOH (reflux 8 hrs.) to myrtenol (III), which was collected in 2 fractions by phthalate m. 111-11.6°. III (5.5 g.) in 25 g. AcOH and 3.0 g. NaCrO₄ (1 hr. without heating) gave on evapn. of the AcOH in vacuo and extn. of the residue with Et₂O 2 fractions: (a) m. 66-8° (2 g.), and (b) m. 66-110° (1 g.). Fraction (a), [α]_D 10.9°, ν_{KBr} 1.60153, formed an oxime, m. 99-100°, which did not depress the m.p. of authentic myrtenal oxime. In view of the above results I is thought to be dimyrtanyl selenide. PCl₅ could not be used for the degradation of the selenides of camphene and limonene. H. H. Sennat.

ASH-LESS METALLURGICAL LITERATURE CLASSIFICATION

SEARCHED _____

SERIALIZED _____

INDEXED _____

FILED _____

SEARCHED AND SERIALIZED _____

INDEXED AND FILED _____

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PROCESSED AND APPROVED FOR

Reaction of selenium oxide with *p*-methane. Would Zachariewicz, Horwitz (Chem., 22, 1675 (1941).—Meatheine (178 g.) and 72.2 g. Se₂, in 110 g. NaHSO₃ (added dropwise) on heating 4 hrs. at 90° deposited 28.1 g. Se; isolated 42 g. methane and 90 g. oxidation products were from I, through the NaHSO₃ addn., compd., was isolated 1.5 g. 3-menthene-5-one (III), b.p. 112–13°; semicarbazone m. 175–6°. The remainder of I on distn. (4 times) gave 3-menthene-5-ol (III), b.p. 103–4°, [α]_D 18.1°, "y 1.46985, d₄ 0.9256; phthalate m. 121°, [α]_D in 10.55° (in MeCO). III (2.2 g.) and 1.45 g. Na₂Cr₂O₇ in 10 g. AcOH gave 1.3 g. II (identified via the semicarbazone). III (15.4 g.) in 100 cc. Me₂CO, on addn. of 350 cc. eq. 3% KMnO₄ soln. (0°, 1.5 hrs.), steam distn., concn. with Et₂O, gave (from the residue, addn. of NaHSO₃ and extn. with Et₂O) (from the ext.) 3.6 g. 3,4,5-menthatriol, m. 147–8° (from CCl₄). The nonvolatile product (60 g.) of the original methine oxidation could not be purified by cryst. or repn.; it contained 23.1% Se. and was concluded to be methene selenide (IV) (calcd. for CaH₆Se, 22.4% Se). IV (50 g.) in 112 g. CHCl₃, on addn. of 23.3 g. II in 25 g. CHCl₃ (with cooling), gave 12.3 g. Se. The filtrate, on removal of the solvent, gave a residue to which was added 100 g. AgOAc in 180 g. AcOH. The resulting acetate, b.p. 100–20° (15 g.), contg. traces of Br, was heated 8 hrs. with 100 cc. 5% Ba(OH)₂ and gave 3.2 g. III (identified via the phthalate).

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2"

The action of selenium oxide on limonene. Wilhel
Lacharewicz (Univ. Torun, Poland). Recueil Chem. 28,
201-12 (1949) (French summary).—Limonene with SeO_2
gave neutral oxidation products, isolated and Se compds. The neu
tral oxidation products, isolated by steam distn., were
identified as 2 isomeric ales., $\text{C}_{10}\text{H}_{16}\text{O}$; a secondary ale.
(I), b.p. 68-8.5°, $n_D^{20} 1.49424$, d₄²⁰ 0.9329, and a
primary ale. (II), b.p. 79-81°, $n_D^{20} 1.49312$, d₄²⁰
0.9784. The structure of these 2 ales. was not dectd. It
was established, however, that they are not 1,3(9)-*p*-men-
thadien-8-ol, or 1,8(9)-*p*-menthadien-7-ol. The follow-
ing compds. were prep'd. from I: acid phthalate, m. 128-
0°; phenylurethan, m. 129°; naphthylurethan, m. 103-
0°; phenacetan, m. 129°; and naphthylacetan, m.
103-0°. Chromic acid oxidizes I to a ketone whose semi-
carbazone m. 203° (decompn.). The acid phthalate of II
m. 90-91°. Chromic acid oxidizes II to an aldehyde whose
semicarbazone m. 109° (without decompr.). AgCl ox-
idized the above aldehyde to an acid, $\text{C}_{10}\text{H}_{16}\text{O}_2$, m. 109-7°.
The nonvolatile residue from the steam distn. of the main
compds. which were not isolated with SeO_2 was a mixt. of several se
compds. This crude mixt. gave with alc. KOH 2 ales. Identical with
I and II. Pyrolysis of this crude mixt. produced only 1 ale.
Identical with II. 10 references. Cl. C.A. 43, 2076a.
Edward A. Ackermann

ZACHAREWICZ, W.

Polish Technical Abst.
No. 4, 1953
Chemistry and Chemical
Technology

2190 ✓ 3
Zacharewicz, W., Krupowicz, J. Experiments over Obialinu; Varnish
from d - Δ^3 Carene.
"Próby otrzymywania pokusów z d- Δ^3 karenem". Przegląd Chemiczny. No. 3, 1933, pp. 110-113.
The isomerisation of d- Δ^3 carene, using a 10% solution of sulphuric acid in ethanol, yields a mixture of α -terpinene and metha-diene - Δ^3 , the yield being approx. 75%. An oleaginous liquid of varnish properties is obtained by heating the prepared mixture with Pb_3O_4 . A number of comparative experiments, based on the standards for linseed varnish, were made with this carene varnish.

Math 2

4-21-54

ZACHAREWICZ, W.

(3)

Obtaining varnish from d- α -carene. W. Zacharewicz
and J. Krupowicz (Copernik Univ., Torun, Poland).
Przemysl Chem. 9, 110-12 (1933) (English summary).
d- α -Carene (1) (130 g.), obtained by distn. of Polish terpene
oil by using a Dupont column, b.p. 170-1°, has d_4^{20} 0.8012, [η]
15.98°, and n_D^{20} 1.4728; when heated 10 hrs. in 100 ml. of
10% H₂SO₄ in EtOH it gave 2 layers which were sepd. with
H₂O vapor. The volatile fractions b. 179-90°, 75% of total
products, were terpenes; the isomerization was complete.
These fractions treated for 1 hr. with PbO₂ yielded an
oleaginous liquid which had varnish properties (carene
varnish). This liquid had the same acid no., ash content,
and drying properties as flax varnish, but the sp. gr. and
were different and the sapon. no. and I were smaller; it is
insol. in CH₂Cl₂. Gene A. Woyny

11-9-54

POLAND / Organic Chemistry. Natural Compounds and Their C-3
Synthetic Analogs.

Abs Jour: Ref Zhur-Khimiya, No 1, 1959, 1389.

Author: ~~Zacharewicz, W.~~, Uzarewicz, A.

Inst: ~~Mazowieckie Univ., TORUN, Poland.~~

Title: The Oxidation of β -Pyronen With Selenium Dioxide.

Orig Pub: Roczn. chem., 1957, 31, No 2, 721-722.

Abstract: In the oxidation of 1 mole of β -pyronen with 0.5 moles of SeO_2 a bisulfite compound has been isolated, after the decomposition of which a compound was separated having a b. p. of $85-90^{\circ}C./11$ milliliters, $n^{20}D\ 1.4985$, which does not reduce Tollen's reagent. Products which do not form a bisulfite compound were separated into fractions by distillation and a compound was separated having a b. p.

Card 1/2

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POLAND

TOMASZEWSKA, Lucyna, ZACHALOWICZ, Witold, and KRYCHOWIAK, Lucjan, of the Department of Organic Chemistry, M. Copernicus University, (Katedra Chemicznej Uniwersytetu M. Kopernika, Torun), in Torun.

"On a New Method of Obtaining Pinonic Acid Aldehyde."

Warsaw, Roczniki Chemii, Vol 37, No 9, 1963, pp 1063-1065.

Abstract: Authors' French summary modified. Authors applied a new method for obtaining pinonic acid aldehyde. This method is based on the reaction between lead tetracetate and pinone glycol in an acetic acid solution. The spectral analysis of this compound was made at the infrared end of the band. Four references, including 2 Polish, 1 German, and 1 Western.

1/1

ZACHAREWICZ, W.

POLAND / Organic Chemistry. Natural Substances and
Their Synthetic Analogues.

G

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61067.

Author : Witold Zacharewicz, Arkadiusz Uzarewicz.

Inst :
Title : Oxidation of α -Pyronene with Selenium Dioxide.

Orig Pub: Roczn. chem., 1957, 31, No 2, 729-730.

Abstract: An unsaturated alcohol (I) of unestablished structure, boiling point 73 to 75°/7mm, $[\alpha]^{20}_D = +0.3$, $n^{20}_D = 1.5095$, $d_4^{20} = 0.9062$, was separated at the oxydation of α -pyronene with 0.5 mole of SeO_2 in alcohol. I produces phthalate with phthalic anhydride, melting point 172 to 173° (from $C_2H_4Cl_2$);

Card 1/2

ZACHAREWICZ, W

POLAND / Organic Chemistry, Natural Substances and their G
Synthetic Analogues.

Abs Jour: Ref Zhur-Khimiya, 1958, No 20, 67610.

Author : Zacharewicz W., Krupowicz J., Borowiecki L.

Inst : Not given.

Title : Oxidation of Δ^3 -Carene with Selenium.

Orig Pub: Roczn. chem., 1957, 31, No 2, 739-740.

Abstract: Oxidation of Δ^3 -carene with selenium anhydride in alcohol results in the formation of an unsaturated alcohol of 82-84°/5mm boiling point, $[\alpha]^{16}_D$ of approx. 124.4°, and $n^{19}D = 1.4920$. When the latter is oxidized with chromic acid in CH_3COOH an anhydride of 86-88°/10mm boiling point, $[\alpha]^{16}_D$ of approx. 37.2°, $n^{16}D = 1.5075$, and $d_{16}^{18} = 0.9085$ is obtained.

Card 1/1

54

BRZOZOWSKI, Zdzislaw; ZACHAREWICZ, Witold

On new complex compounds of isocyanates with tertiary amines. II.
Rocznik chemii 35 no.4:1163-1165 '61.

1. Laboratorium Badawcze Starogardzkich Zakladow Farmaceutycznych,
Starogardzki i Katedra Chemii Organicznej, Uniwersytet M. Kopernika, Torun.

TOMASZEWSKA, Lucyna; ZACHAREWICZ, Witold

The action of selenium oxyde upon terpinolene.
Rocznik chemii 35 no.6:1597-1609 '61.

1. Katedra Chemii Organicznej, Uniwersytet M. Kopernika,
Torun.

SILA, Bronislaw; LESIAK, Tadeusz; ZACHAREWICZ, Witold; WESOLOWSKI, Kornel;
CISZEWSKI, Bohdan; KAMIŃSKI, Lech

Studies on the utilization of o-nitroethylbenzene. III. Catalytic
synthesis of kumaron with o-ethylophenol. Przem chem 41 no.2:78-
72 F '62.

ZACHAREWICZ, Witold; UZAREWICZ, Arkadiusz; SEKUTOWICZ, Bozena

On the action of diborane on trans-verbenol. Rocznik chemii 36
no.1:171-172 '62.

1. Katedra Chemii Organicznej, Uniwersytet M.Kopernika, Torun.

ZACHAREWICZ, Witold; BOROWIECKI, Lucjan; JANUSZEWSKA, Barbara

On a new photocatalytic method of obtaining d-carene-3-ol-7.
Rocznik chemii 36 no.1:173-174 '62.

1. Katedra Chemii Organicznej, Uniwersytet M. Kopernika, Torun.

E 41812-66

ACC NR: AF6031696

(N)

SOURCE CODE: P0/0099/66/040/003/0437/0443

17
B

AUTHOR: Zaidlewicz, Marek; Uzarewicz, Arkadiusz; Zacharewicz, Witold

ORG: Department of Organic Chemistry, N. Copernicus University, Torun (Katedra Chemii Organicznej Uniwersytetu M. Kopernika)

TITLE: Action of selenium dioxide on 1,3-dimethyl-1-ethyl-cyclohexadiene-3,5

SOURCE: Roczniki chemii-annales societatis chimicae polonorum, v. 40, no. 3, 1966,
437-443

TOPIC TAGS: selenium compound, organoselenium compound

ABSTRACT: The action of selenium dioxide on 1,3-dimethyl-1-ethylcyclohexadiene-3,5 yields two products: (1) the mixture of 1,3-dimethyl-2-ethyl-benzene, and (2) selenoorganic compounds. Orig. art. has: 1 table. [Based on authors' Eng. abst.]
[JPRS: 36,002]

SUB CODE: 07 / SUBM DATE: 02Aug65 / ORIG REF: 002 / OTH REF: 010

Card 1/1 af

0779 0270

BOKOWIECKI, Lucjan; ZACHARIEWICZ, Witold; PRZYSTUPA, Joanna

Transformations in the carane series. Pt. 1. Rocznik chemii 38
no. 1:87-91 '64.

1. Department of Organic Chemistry, N. Copernicus University,
Torun.

TOMASZEWSKA, Lucyna; ZACHAREWICZ, Witold; KRYCHOWIAK, Lucjan.

New method of obtaining aldehyde of pinonic acid. Roczniki
chemii 37 no. 9:1063-1065 '63.

1. Katedra Chemii Organicznej, Uniwersytet M. Kopernika,
Torun.

BRZOZOWSKI, Zdzislaw; ZACHAREWICZ, Witold

New reactions and complex compounds of sulfonylisocyanates
with tertiary amines and their complexes with primary amines.
Rocznik chemii 36 no.12:1743-1749 '63.

1. Laboratorium Badawcze, Starogardzkie Zaklady Farmaceutyczne,
Starogard Gdanski, i Katedra Chemii Organicznej, Uniwersytet im.
M.Kopernika, Torun.

BRZCZOWSKI, Zdzislaw; ZACHAREWICZ, Witold

New reactions and complex compounds of isocyanates with tertiary
amines and their complexes with primary amines. Pt. 2. Roczn
chemii 37 no.5:553-560 '63.

I. Research Laboratory, Polfa, Starogard, and Department of
Organic Chemistry, Nicholas Copernicus University, Torun.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2

ZACHAREWICZ, Witold, prof.dr.

In Jędrzej Śniadecki's defense. Problemy 18 no.6:450 162.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963330004-2"

BRZOSOWSKI, Zdzislaw; ZACHAREWICZ, Witold

On the new complex compounds of sulfoisocyanates with tertiary
and primary amines. III. Rocznik chemii 36 no.2:291-293 '62.

1. Laboratorium Badawcze Starogardzkich Zakladow
Farmaceutycznych, Starogard Gdanski, i Katedra Chemii Organicznej,
Universytet im. M. Kopernika, Torun.

ZACHAREWICZ, Witold; UZAREWICZ, Arkadiusz; ZAIDLEWICZ, Marek

On boronylation-oxydation of 1,3-dimethyl-1-ethyl-cyclohexadiene-3,5.
Rocznik chemii 36 no.2:367-368 '62.

1. Katedra Chemii Organicznej, Uniwersytet im. M. Kopernika, Torun.

SILA, Bronislaw; LESIAK, Tadeusz; ZACHAREWICZ, Witold; WESOLOWSKI, Kornel;
CISZEWSKI, Bohdan; KAMINSKI, Lech

Studies on the utilization of o-nitroethylbenzene.

Pt. 3. Catalytic synthesis of kumaron from o-ethylphenol.
Przem chem 41 no.2:70-72 F '62.

1. Katedra Chemii Organicznej, Uniwersytet im. M. Kopernika,
Torun i Katedra Metaloznawstwa, Politechnika, Warszawa.

S/081/62/000/021/013/069
B156/B101

AUTHORS: Zacharewicz, Witold, Uzarewicz, Arkadiusz, Zaidlewicz, Marek

TITLE: The hydroboration and oxidation of 1,3-dimethyl-1-ethyl-cyclohexa-3,5-diene

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1962, 140, abstract
21Zh92 (Roczn. chem., v. 36, no. 2, 1962, 367 - 368 [Pol.;
summary in French])

TEXT: A new unsaturated $C_{10}H_{18}O$ alcohol of unknown structure has been produced by the action of B_2H_6 on 1,3-dimethyl-1-ethyl-cyclohexa-3,5-diene (I) followed by oxidation. Over a period of 4 hours, 2.35 g of B_2H_6 are passed through 0.5 moles I dissolved in 200 ml of ether, in N_2 atmosphere (at $0^\circ C$). The ether is distilled off in vacuo, 30 ml water, and then a mixture of 70 ml 30% H_2O_2 and 60 ml of 3 N NaOH are added; $C_{10}H_{18}O$ is extracted from the reaction mixture with ether; its boiling point is

Card 1/2

The hydroboration and oxidation...

5/081/62/000/021/013/069
B156/B1011

97 - 99°C/8 mm Hg, n_D^{20} 1.4783, d_4^{24} 0.9924. The corresponding carbonyl compound was produced by the action of H_2CrO_4 on $C_{10}H_{18}O$; its 2,4-dinitrophenyl hydrazone has the melting point 130 - 131°C. [Abstracter's note: Complete translation.]

Card 2/2

S/081/62/000/023/035/120
B166/B101

AUTHORS:

Brzozowski, Zdzislaw, Zacharewicz, Witold

TITLE:

New complex compounds of sulfoisocyanates with tertiary and primary amines. III

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1962, 267, abstract 23Zh161 (Roczn. chem., v. 36, no. 2, 1962, 291-293 [Pol. summaries in Russ., Eng., and Ger.])

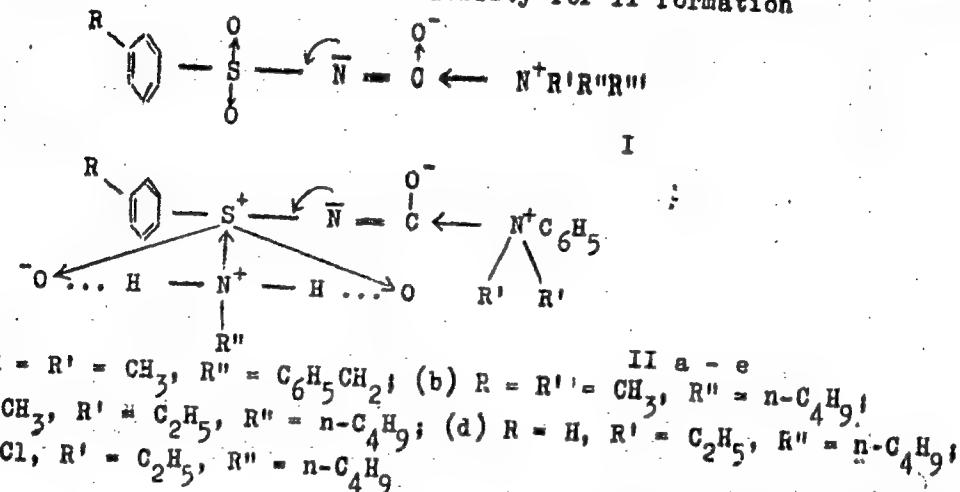
TEXT: Sulfoisocyanates (I) have been produced previously (see communication II, RZhKhim, 1962, 6Zh4), now their interaction with primary amines is studied. The result of the reaction depends on the basicity of the primary amine and the structure of the I. When I ($R = CH_3$, $NR'R''R''' = pyridine$) interacts with a primary amine N,N' -substituted ureas ($R = CH_3$, $NR'R''R''' = dialkylaniline$) react only with highly basic primary amines (dissociation constant 10^{-5} - 10^{-4}) to form a substance (II). It is suggested that the formation of II is connected with the primary amine's difficult approach to the carbonyl C atom, as a result of which the

Card 1/3

New complex compounds of...

S/081/62/000/023/035/120
B166/B101

attachment goes via the electropositive S atom due to the amine's electron pair. It was established that the ability for II formation



Card 2/3

New complex compounds of...

S/081/62/000/023/035/120
B166/B101

increases with increase in the electronegativity of the R in the II, (CH₃ < H < Cl). The II, the gross formula and the melting point in °C are given: a, C₂₃H₂₇O₃N₃S, 211-212; b, C₂₀H₂₉O₃N₃S, 221-223; c, C₂₂H₃₁O₃N₃S, 178.5-180; d, C₂₁H₃₁O₃N₃S, 177-178.5; e, C₂₁H₃₀O₃N₃SCl, 192-193.
[Abstracter's note: Complete translation.]

Card 3/3

ZACHAREWICZ, Witold

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1-JA)(NB)
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—1,2,3,4-Tetramethylbenzene (I) was obtained by
action of 100.5 g. SeO₂ on 408 g. α -pyrone in alc. Nitro-
phenistene (m. 122-31°) was prepd. from I by Tohl's method
(Ber. 21 908(1888)) and phenoxylic acid (m. 164.5-67°) by
Jacobson's method (Ber. 19, 1214(1888)). I was oxidized
by heating 4 days with 5% aq. KMnO₄ soln., filtered, con-
densed to 150 ml., acidified with H₂SO₄, and the soln. extd.
with Et₂O to give mellophanic acid, m. 235-8°.

A. Kreglewski

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(Carene)

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A new carene alcohol. Witold Zacharewicz, Jan Kruszewicz, and Lucjan Boczkiewicz (Olsztyn, Poland). Roczniki Chem. 33, 81-92 (1959) (French summary). Carene was oxidized by means of SeO_4 at 60°. The products, isolated by steam distn., were sep'd. in 2 parts by action of satd. aq. soln. of Na_2SO_4 + NaHCO_3 (I). The part nonreacting with I was twice distd. in vacuo to give α -caren-7-ol (b. 77-8°/3 mm.) $[\alpha]_D^{25}$ 119°, n_D^{20} 1.4900, d_{40}^{20} 0.9431, R_w 46.60 (calcd. 46.12) (II). β -Nitrophthalate of II melts at 148.5-160.5° (yellow crystals, $[\alpha]_D^{20}$ -0.4°). II reacts with 2 moles Br. Oxidation of II by means of CrO_3 in AcOH yielded β -caren-7-ol, b. 75-8°/3 mm., $[\alpha]_D^{25}$ 67.2°, n_D^{20} 1.4960, d_{40}^{20} 0.9718, R_w 46.16; 2,4-dinitrophenylhydrazone m. 164-5° red. Oxidation of II with KMnO_4 gave trans-caronic acid, m. 203-8.5°. A. Kreglewski

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